

SUMMARY OF COMMENTS/RECOMMENDATIONS

PROPONENT: Town of Gillam
PROPOSAL NAME: Sewage Treatment Plant (Stage 2)
CLASS OF DEVELOPMENT: 2
TYPE OF DEVELOPMENT: Waste/Scrap Wastewater Treatment Plant
CLIENT FILE NO.: 151.10

OVERVIEW:

On May 31, 1999, the Department received a Proposal from the Town of Gillam to upgrade its sewage treatment plant by constructing a sequencing batch reactor(SBR) system and a ultra violet light (UV) disinfection system.

On June 15, 1999, the Department placed copies of the Proposal in the Public Registries located at 123 Main St. (Union Station), the Centennial Public Library, the Thompson Public Library and the office of the Town of Gillam. As well, copies of the Proposal were provided to the Interdepartmental Planning Board and TAC members. The Department placed a public notification of the Proposal in Thompson Nickel Belt News on June 21, 1999. The newspaper and TAC notification invited responses until July 20, 1999.

A Stage 1 Licence was issued for the construction of the new sewage treatment plant on July 13, 1999.

COMMENTS FROM THE PUBLIC:

- No responses were received to the public notification.

COMMENTS FROM THE TECHNICAL ADVISORY COMMITTEE:

Highways

- *No comment.*

Natural Resources

- *Consideration should be given to redirecting the sewage effluent into the reservoir or into surrounding wetlands which would serve to polish it before it flows into surface waters.*

Disposition:

- The discharge location cannot be changed due to severe freezing conditions at the out-fall during the winter period.
- The dilution of the wastewater in the Kettle River is significant. During low flow conditions the current discharge will be less than 2 % of the flow. When the discharge reaches the Nelson River, the dilution, during low flow conditions, will be approximately 1:200,000.

Historic Resources

- *No concerns.*

Rural Development

- *No concerns.*

Health

- *No comment.*

Environment-Operations Division

- *The proposed quality of the effluent is appropriate for the Kettle and Nelson Rivers. Specific discharge limits on BOD, TSS, fecal coliform and total coliform are recommended.*
- *Regional experience with other recent SBR's is that ammonia levels are rarely kept below 1.0 mg/l. Is the consultant confident that the plant can achieve ammonia levels below 1.0 mg/l on a consistent basis.*
- *Effluent quality should be monitored and reported on a minimum monthly basis.*
- *If the UV disinfection system does not meet expectations, the licensee should be prepared to install a chlorination line to boost effectiveness.*
- *Trash and sludge from the plant must be buried at a registered waste disposal ground. Trash and sludge should be buried immediately for public health reasons.*
- *The licensee should report determine and report the total monthly effluent overflow by-passing the completed plant.*

Disposition:

- The draft Licence includes monitoring and reporting requirements with respect to effluent quality.
- Ammonia limits are not prescribed in the draft Licence since the concentration of ammonia is expected to be diluted in the Kettle River even under low flow conditions to levels below those required to protect aquatic life.
- Disposal of sludge solids is addressed in the draft Licence.
- The draft Licence does not permit discharge of effluent that does not meet effluent quality limits (i.e. a by-pass of the sewage treatment plant). In addition, the draft Licence includes a clause to deal with a breakdown of the wastewater collection and/or treatment system.

Environment-Water Quality Management

- *No concerns.*

Canadian Environmental Assessment Agency

- *The application of the Canadian Environmental Assessment Act with respect to this proposal will not be required.*

PUBLIC HEARING:

A public hearing is not required.

RECOMMENDATION:

The Proponent should be issued a Stage 2 Licence, in accordance with the attached draft, to operate the sewage treatment plant. Enforcement of the Licence should be assigned to the Northern Region.

PREPARED BY:

Mike Van Den Bosch, P. Eng.
Environmental Engineer
Municipal & Industrial Approvals
December 29, 1999

Telephone: (204) 945-7015
Fax: (204) 945-5229
E-mail Address: mvandenbos@gov.mb.ca